

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) Geometric-waveform oscillator for processing light, the geometric-waveform oscillator comprising:

a plurality of masses, at least one of said masses comprising a light processing module;

at least one force producing element coupled with at least one of said masses, said at least one force producing element applying at least one force to said at least one masses; and

a plurality of elastic elements, said elastic elements coupling said masses together, said elastic elements coupling said at least one masses with a respective at least one support,

wherein the mass values of said masses, the force value of said at least one force, and the stiffness coefficients of said elastic elements, are selected such that said light processing module oscillates according to said geometric-waveform selected from the list consisting of:

triangular;

non-sinusoidal; and

square.

2. (Cancelled)

3. (Original) The geometric-waveform oscillator according to claim 2, wherein said triangular waveform is symmetric.

4. (Original) The geometric-waveform oscillator according to claim 2, wherein said triangular waveform is asymmetric.

5. (Original) The geometric-waveform oscillator according to claim 1, wherein said light processing module reflects light.

6. (Previously Presented) The geometric-waveform oscillator according to claim 1, wherein said light processing module oscillates in an oscillatory motion selected from the list consisting of:

linear; and
angular.

7. (Original) The geometric-waveform oscillator according to claim 1, wherein said at least one force producing element is selected from the list consisting of:

mechanical;
electronic;
electromechanical;
electrostatic;
thermodynamic; and
fluidic element.

8. (Original) The geometric-waveform oscillator according to claim 1, wherein said at least one force producing element is located at said at least one support.

9. (Original) The geometric-waveform oscillator according to claim 1, wherein each of said masses, said at least one force producing element, and said elastic elements are incorporated with a microelectromechanical system.

10. (Original) The geometric-waveform oscillator according to claim 1, wherein said light processing module is located between respective two of said masses.

11. (Original) The geometric-waveform oscillator according to claim 10, wherein respective pairs of said at least two masses are symmetrically located at two sides of said

light processing module.

12. (Original) The geometric-waveform oscillator according to claim 10, wherein respective pairs of said at least two masses located at two sides of said light processing module, have substantially the same geometric and physical characteristics.

13. (Original) The geometric-waveform oscillator according to claim 1, wherein said masses and said elastic elements are located between two of said respective at least one support.

14. (Original) The geometric-waveform oscillator according to claim 1, wherein the densities of said masses and said elastic elements are substantially the same.

15. (Currently Amended) Geometric-waveform oscillator for processing light, the geometric-waveform oscillator comprising:

a plurality of masses, at least one of said masses comprising a light processing module;

at least one force producing element coupled with at least one of said masses, said at least one force producing element applying at least one force to said at least one masses;

a plurality of elastic elements, said elastic elements coupling said masses together, said elastic elements coupling said at least one masses with a respective at least one support; and The geometric-waveform oscillator according to claim 1, further comprising

at least one damping element coupled with at least one of said at least one masses, at least one of said elastic elements, and with said respective at least one support,

wherein the mass values of said masses, the force value of said at least one force, and the stiffness coefficients of said elastic elements, are selected such that said light processing module oscillates according to said geometric-waveform.

16-17. (Cancelled)